

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jeffrey Clifford Mogul</td> <td>11/29/2011</td> </tr> <tr> <td>Naveen Muralimanohar</td> <td>12/01/2011</td> </tr> <tr> <td>Mehul A. Shah</td> <td>12/05/2011</td> </tr> <tr> <td>Eric A. Anderson</td> <td>12/02/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jeffrey Clifford Mogul	11/29/2011	Naveen Muralimanohar	12/01/2011	Mehul A. Shah	12/05/2011	Eric A. Anderson	12/02/2011
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Naveen Muralimanohar	12/01/2011										
Mehul A. Shah	12/05/2011										
Eric A. Anderson	12/02/2011										
RECEIVING PARTY DATA											
Name:	Hewlett-Packard Development Company, L.P.										
Street Address:	11445 Compaq Center Drive West										
City:	Houston										
State/Country:	TEXAS										
Postal Code:	77070										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13285735</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13285735						
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Application Number:	13285735										
CORRESPONDENCE DATA											
Fax Number:	(970)778-4063										
Phone:	(541)715-8443										
Email:	terri.tuma@hp.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Hewlett-Packard Company										
Address Line 1:	3404 E. Harmony Road MS 35										
Address Line 2:	Intellectual Property Administration										
Address Line 4:	Fort Collins, COLORADO 80528										
NAME OF SUBMITTER:	Felipe Hernandez										
<p>Total Attachments: 4 source=HP82753556_Assignment#page1.tif source=HP82753556_Assignment#page2.tif source=HP82753556_Assignment#page3.tif source=HP82753556_Assignment#page4.tif</p>											

CH \$40.00 13285735

HEWLETT-PACKARD COMPANY
Intellectual Property Administrator
3404 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

PATENT APPLICATION

ATTORNEY DOCKET NO. 82753556

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

METHODS AND APPARATUS TO ACCESS MEMORY

Filing Date: October 31, 2011

Application No.: 13/285,735

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Inventor's Signature

Jeffrey Clifford Mogul
Inventor's Typed Name

11/29/2011
Date Assignment Signed

11/29/2011
Date Application Signed

Inventor's Signature

Naveen Muralimanohar
Inventor's Typed Name

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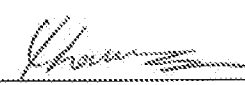
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Date Assignment Signed

Jeffrey Clifford Mogul

Inventor's Typed Name

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Inventor's Signature

12/1/2011

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Naveen Muralimanohar

Inventor's Typed Name

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ASSIGNMENT OF PATENT APPLICATION (cont.)



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12/5/2011

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Mehul A. Shah

Inventor's Typed Name

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Eric A. Anderson

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